

**Product Performance Data Evaluation Review  
SCIENCE REVIEW**

By  
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Date: July 18, 2007

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DP: 337990

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EPA Reg. No. 73049-71

Product Name: UltraTec Dust Insecticide

Active ingredients: 0.05% deltamethrin

Formulation: RTU dust

Application rates: A variety of rates are stated but none for carpenter ant control.

Use pattern/sites: No directions for carpenter ant control as they are combined with termite control directions. Note that the submitted efficacy studies do state an application rate.

Request: Review the label and submitted studies. Does the label support a carpenter ant control claim of 12 months (1 year)?

OPPTS Guideline: 810.3500

Study GLP?: These were non-GLP studies.

**MRID 47072201 Efficacy Tests and Residual Activity of 0.05% DeltaDust, 0.5% silafluofen, and 0.1% Tempo Dusts in Carpenter Ant Control.**

**MRID 47072202 1999 Efficacy Tests and Residual Activity of DeltaDust (0.05%) and Ficam (1%) Dust in Carpenter Ant Control – Continuation of Tests Initiated in 1997.**

**Methods:** Both of these studies were done with field collected carpenter ant workers using simulated voids constructed of plywood. Both insulated and not insulated void modules were tested. 2-3 g of DeltaDust, a 0.05% deltamethrin dust, was applied to each void and the void was aged for at least one year. Aged voids were used in these tests and

testing was conducted at prescribed interval through one year post-treatment. Forced exposures consisted of 1, 3, and 5 minute intervals. Efficacy was evaluated for up to 14 days post exposure in the laboratory.

**Results:** In every test, the initial exposure resulted in a high degree of efficacy. In some cases results were inconsistent while in others ants recovered from the exposure following a period in a chemical free environment. Insulation of the void had no effect on the efficacy of the DeltaDust.

**Conclusion:** The data support the 12 month claim provided it is revised as described in the recommendations below.

### **Entomologist's Recommendations:**

**The above studies support the 12 month claim with the following qualifications:**

1. The label must be revised to include specific directions for wall void applications. The product application rate in the studies was 3g/square yard. This is equivalent to about 0.33g/square foot/33g/100 square feet or 0.07lbs/100 square feet or 0.7 lbs/1000 square feet. The label should be revised to state the amount per void and a rate per 100 square feet of 0.07 lbs per 100 square feet. Each void may be 56 (2 x4 studs) to 88 (2 x 6 studs) square inches on 16 inch wide voids, equivalent to 0.4 square feet to 0.6 square feet each. The number of grams per void should be stated and you should direct the applicator on how to apply that amount per void. Based on the label rates, the amount applied per void will be amount 0.2g and this is likely to require some type of drilling and injection in post-construction voids.
2. The 12-month claim only applies to wall void applications ONLY and the label claim should be revised to state this fact. The residual claim does not apply to general surface applications or to indoor or outdoor perimeter treatments.

The claim must be revised to read: "Kills carpenter ants invading treated wall voids for up to 12 months."